

Material Specification

HY-C3 - High-Performance Straw & Cotton Plant Material Hydraulically-Applied Mulch

Description:

East Coast’s GroundControl HY-C3 High Performance BFM is an extended-term hydraulically-applied slurry composed of a patented blend of mechanically processed straw fibers, reclaimed cotton plant materials, and proprietary-performance enhancing tackifiers. GroundControl HY-C3 creates a flexible uniform protective layer that prevents raindrop splash erosion, absorbs rainfall and releases the moisture to provide optimal conditions for seed germination and rapid vegetative establishment. GroundControl HY-C3 is suitable for establishing vegetation on 1:1 or flatter slopes with an estimated functional longevity of 6 months.

Material Content	
Mechanically Processed Straw:	70% ± 3%
Mechanically Processed Reclaimed Cotton Plant Material:	20% ± 3%
Proprietary Blend of Tackifiers, Activators and Additives:	10% ± 1%

Performance Values	
Rainfall Event (R-Factor):	231.00
Cover Factor:	0.00
Percent Effectiveness:	99.70 %
Vegetation Establishment:	> 450 %

Specifications	
Content:	Straw/Reclaimed Cotton Plant Materials
Total Organic Matter:	90
Carbon to Nitrogen Ratio:	38 : 1
Moisture Content:	12% ± 3%
Color:	Natural Green
pH (% wet basis):	6.6
Light Penetration:	2
C-Factor:	0.003

Packaging	
Bag Size:	17" x 9" x 26"
Bag Weight:	50 lbs (22.65 kg)
Pallet:	40 bags
Full Truck:	880 bags

Slope Condition	Rate (lbs./acre)	Rate (kg/ha)
≤4:1	2500	2800
≤4:1<3:1	3000	3400
≥3:1<2:1	3,500	3,900
2:1	N/A	N/A
≥2:1≤1:1	4,000	4,500
1:1	4,500	5,000

Index Properties	Test Method	Typical Values
Mass Per Unit Area:	ASTM D6566	13.0
Thickness:	ASTM D6525	0.19 in. (4.8 mm)
Ground Cover:	ASTM D6567	98.70 %
Organic Matter:	ASTM D2974	93.64 %
Water Holding Capacity:	ASTM D7367	820 %
Acute Toxicity:	EPA 2021.0-1	Non-Toxic
Functional Longevity:	Observed	Up to 6 months
Cure Time:	Observed	No cure time
Color:	Observed	Green (Observed)



Mixing and Application:

First fill tank of a mechanically agitated hydroseeding machine with sufficient water to suspend seed and fertilizers. Next add all soil amendments (seed, fertilizer, etc.). Continue adding water slowly while adding the GroundControl HY-C3 Mulch at a steady rate. Consult application and loading charts to determine the proper application rates. Mix at a rate of 50 lbs of GroundControl HY-C3 Mulch per 100 gallons of water. Confirm loading rates with equipment manufacturer. All mulch should be loaded when the tank is approximately ¾ full. Agitate for a minimum of ten minutes after adding the last amount of the mulch. For machines equipped with variable speed agitation, bring agitator to a slow roll before pumping while keeping engine RPMs high. Next apply in a uniform layer from two opposing directions to ensure complete soil coverage. Irregular surfaces may need slightly higher application rates to obtain adequate coverage. Apply over properly prepared seedbed. **Do not apply in channels, swales, or areas of concentrated flow unless accompanied with a Rolled Erosion Control Product**.

Another Product From:



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